TECHNICAL CHARACTERISTICS — AP180

AUDIO CHARACTERISTICS

Stereo Analog Inputs	2
Maximum analog input level (RMS)	2V
Coaxial digital inputs	2
Optical digital inputs	2
Digital input format	IEC1937
Digital input sampling frequency	32 - 44.1 – 48 kHz
D/A resolution	6 x 20bits
Line-out Audio outputs	6
Output impedance	< 600Ω
Front gain (L+R)	14 dB
Sub gain	24dB
Maximum line output level (RMS)	5V
Center channel power (4Ω)	180 W
Bandwidth (40W / 8Ω)	20 Hz - 30 kHz
Surround channels power (4Ω)	2x180 W
Output impedance	< 0.1 Ω / 1kHz
THD (20Hz-20kHz)	< 0.1 %
Power headroom	> 15dB
Signal to noise ratio (A weighted)	> 85 dB
Decoder type	DOLBY Digital Pro Logic II / DTS

Power supply

Power consumption (Max)	300 W
Fuse type (5x20)	1.6A / 250V (slow blow) 3.15A / 130V (slow blow)

Dimensions : W x D x H in mm	430 x 295 x 70
Weight	6.5 kg

WARRANTY

This warranty will start from the date of purchase of the Micromega product.
Statutory warranty regulations apply in the country where the Micromega product was purchased. In case of complaints please contact the dealer who supplied your Micromega product.

WARNING: Warranty will be nulled if the unit is not shipped back in its original packing or if the serial number has been modified or erased.

Warranty Certificate

Date of purchase: _____

Serial number _____

Dealer's Stamp

AUDIS sarl 13-15, rue du 8 Mai 1945, ZA de la Haie Griselle, 94470 Boissy Saint Léger FRANCE
TEL: +33 (0)1 4382 8860 **FAX:** +33 (0)1 4382 6129 **INTERNET:** http://www.micromega-hifi.com

HD audio MICROMEGA

OPERATING MANUAL

AP-180

Dear customer,
We thank you for having chosen the AP180 processor.
This units combines a very high quality of sound reproduction to a very great ease of use. The reading of this instruction manual is not useless and will allow you to benefit the best from all the original functions of your AP180.

CHECKING

Check with attention the state of the carton box. If you have the slightest doubt about it do not hesitate to contact your retailer.

UNPACKING

Remove with the greatest care your AP180 from its box. We advise you to preserve this last in a dry place. If you must turn back your unit to your retailer, it would be necessary for you to return it in its packing of origin because the guarantee applies only to this only condition.

ACCESSOIRES

When opening the box you should find the following accessories :
AC line cord.
RC Handset

LINE VOLTAGE

- Check that the voltage indicated on the descriptive label on the back of the unit is matching that which serves your location.
- In the contrary case please contact your approved retailer.

INSTALLATION

In order to benefit the maximum of all the advantages of your AP180, it is important to install it under good conditions.
We advise you, as far as possible, to install the unit on the shelves of an audio rack or a piece of furniture in order to avoid any excessive heating.

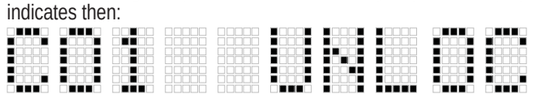
!!! IMPORTANT !!!
If you choose, for a question of place or aesthetics, to pile up the units, it is imperative to place AP180 at the top of the pile. Never place another unit at the top of AP180; it is advised to leave an open space of approximately 30 cm to the top of that in order to ensure a good ventilation to him.

CONNECTIONS

After having checked that the mains voltage of AP180 is identical to that which serves your location, connect the power cord to the power inlet of the unit and the wall inlet. Connect the analog outputs of your Audio-Video sources to the analog inputs of AP180 AN1 and AN2. These inputs decode the signals coded in Dolby Pro Logic II.
Connect the digital outputs of your Audio-Video sources to the digital inputs of AP180 Coax-1, Coax-2, Opto-1, Opto-2. These inputs decode the compressed data signals. Connect the Stereo Cinch cord between the outputs FRONT L+R of AP180 to the inputs of your main amplifier. If you use IA60, IA100 or IA180 as main amplifier, connect the Stereo cord to input AUX2/PRO of your amplifier.
If you have an amplified sub-woofer, connect its input to the SUB output of AP180 and refer to the subwoofer manual for its implementation.
If you have a centre speaker, connect to it to the speaker output labelled CENTER of AP180.
Connect the left surround speaker to the speaker output labelled LEFT SURROUND of AP180 and right surround speaker to the speaker output labelled RIGHT SURROUND.
The connector marked “RS232” located on the left of the digital inputs of AP180 is connected to an optional RS232 switching.

SWITCHING ON

After having turned your AP180 ON by operating the On/Off switch located on the left power inlet at the back of the unit, the LED Standby lights up. Press on the Standby key. The display indicates then:



AP180 is ready to be configured.

DECODING SYSTEM INDICATION

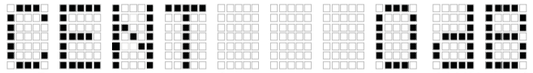
AP180 detects the type of entering signal automatically and opposite indicates it by means of illuminated logos below the dot matrix display of the unit.
If you send on AP180 a stereo signal, analog or digital, it will be decoded as a Dolby Pro Logic signal. You can also transform this signal into Dolby Pro Logic II while pressing on key MODE. The various modes are:
Dolby Pro Logic, Dolby Pro Logic II Movie, Dolby Pro Logic II Music., Stereo. To pass from one mode to the other press successively on MODE key.

DISPLAY OFF

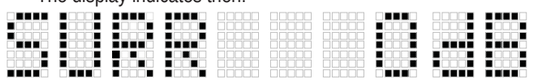
You can choose to minimize the display by pressing the key Display ▼ of the remote or by a long pressure on the DISC key of the unit.
When accessing another function, the display becomes full again for 5 seconds to show the state of the unit.
To come back to normal displaying mode, press Display ▲ on the remote or do a long pressure of the < INPUT key.
If you use a Micromega IA-XX as main amplifier you will have to put it in Display OFF mode before turning your AP-180 in Display OFF, otherwise you main amplifier will stay in normal Display mode.

ADJUSTMENTTS DURING LISTENING

Although the ideal tuning is obtained with the procedure of test, it is wise to be able to reach certain tunings of level during the listening of a program.
In the course of listening, you can press on the key MODE.
The display indicates then:



By using the encoder of the apparatus or the keys MAIN -/+ of the remote control, you can adjust the level of the centre speaker of ± 10dB. Press again on the key MENU.
The display indicates then:



By using the encoder of the unit or the keys MAIN -/+ of the remote control, you can adjust the level of the surround speakers ± 10dB. Press again on the key MENU.
The display indicates then:

In the case or you do not have a sub-woofer, the display will indicate BASS instead of SUB.
By using the encoder of the unit or the keys MAIN -/+ by the remote control, you can decrease the low register level of 10dB.

NOTE 1 : The values of tuning of the test procedure are regarded as values of reference.
This fact AP180 will return systematically to these values each time you change input or that you will put the unit in standby mode.

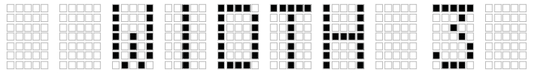
IMPORTANT
In DOLBY DIGITAL mode, it is possible to set AP180 without dynamic compression. This mode is called DYN DAY in opposition to the mode DYN NIGHT which allows the film listening the night. Following the small ADJUSTMENT DURING LISTENING a pressure on the key MENU and the display indicates DYN NIGHT.
By using the encoder of the unit or the keys MAIN -/+ of the remote control, it is possible to set AP180 on DYN DAY which increases substantially the dynamics of the signal.

DOLBY PRO LOGIC II

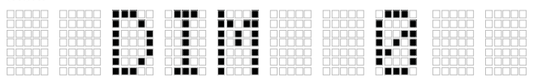
The Dolby Pro Logic II system creates 5 channels starting from a 2 channels source. There are two principal modes: The MOVIE mode and MUSIC mode.
MOVIE Mode is recommended for all the Dolby Pro Logic encoded programs such as the televised programs and the programs recorded on VHS and DVD.
MUSIC Mode is mainly dedicated to the reproduction of stereo musical sources.

DOLBY PRO LOGIC II MUSIC

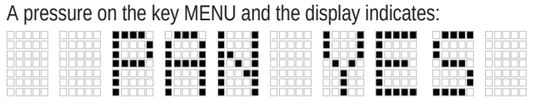
The Pro Logic II Music mode allows specific tunings to adapt this mode has your preferences.
When AP180 is set as Music Pro Logic II mode, press on the key mode. Following the tunings during the listening of the levels Centre, Surround and Sub (or Low), a pressure on the key MENU and the display indicates:



By using the encoder of the unit or the keys MAIN -/+ of the remote control, it is possible to adjust WIDTH between 0 and 7. When this tuning is to 0 the totality of the signal of the center speaker is directed towards the center speaker itself. When this tuning is to 7 the signal of the center speaker is also distributed between the left and right main speakers.
An additional pressure on the key Mode and the display indicates then:



This adjustment makes it possible to position sound space forwards or backwards. The ideal adjustment is 0. While acting on the encoder or the keys MAIN -/+ of the remote control, one can move sound space forwards with DIM 1, 2 or 3 or towards the back and the enclosures of effects with DIM -1, - 2 and -3.
A pressure on the key MENU and the display indicates:



By using the encoder of the unit or the keys MAIN -/+ of the remote control, it is possible to adjust this functionality on YES or NO the panorama effect is to be tested and use according to your personal tastes.
These three adjustments can be used together or separately and you will acquire experience in time.